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APPLICATION NO.		FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/849,729		05/	20/2004	Thomas E. Tiwald	8650		
	7590 !1/04/2005				EXAMINER		
JAMES D. WELCH 10328 PINEHURST AVE.					CHARIOUI, MOHAMED		
OMAHA, NE 68124					ART UNIT	PAPER NUMBER	
	· · · · · · · · · · · · · · · · · · ·				2057		

DATE MAILED: 11/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		NR.					
•	Application No.	Applicant(s)					
	10/849,729	TIWALD THOMAS E					
Office Action Summary	Examiner	Art Unit					
	Mohamed Charioui	2857	•				
The MAILING DATE of this communication appearing for Reply	pears on the cover sheet with th	e correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fi e, cause the application to become ABANDO	ON. timely filed tom the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 19 A	August 2005.	·					
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.	·					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.					
Disposition of Claims							
 4) Claim(s) 1-41 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-41 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 	awn from consideration.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>02 August 2005</u> is/are:	a)⊠ accepted or b)⊡ objecte	ed to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	, , , , , , , , , , , , , , , , , , , ,	• • • • • • • • • • • • • • • • • • • •					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been rece nu (PCT Rule 17.2(a)).	eation No sived in this National Stage					
Attachment(s)	 .						
I) ☐ Notice of References Cited (PTO-892) Property Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summ Paper No(s)/Mai	l Date					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Information Other:	al Patent Application (PTO-152)					

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Art Unit: 2857

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. **Claims 1-3** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites in page 3, line 15 "also the real part of", this limitation is incomplete. Therefore, claims 1-3 are considered indefinite.

2. **Claims 4-14** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4, recites in page 5, lines 24-25, "for each of the remaining n-2 wavelength range segments, sequentially;" it is not clear from the claim what is being done sequentially to the remaining n-2 wavelength range. Therefore claims 4-14 are considered indefinite.

3. **Claims 15-25** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15, recites in page 10, lines 3-4, "for each of the remaining n -2 wavelength range segments, sequentially," it is not clear from the claim what is being

done sequentially to the remaining n-2 wavelength range. Therefore claims 15-25 are considered indefinite.

4. **Claim 22** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 22 recites in page 12, lines 4-5, "along with other (K-K) consistent oscillator parameters", it is not clear from the claim what other (K-K) consistent oscillator parameters the claim is referring to. Therefore, claim 22 is considered indefinite.

5. **Claims 26-31, 38 and 40** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 26 recites in page 14, lines 8-10, "for each of the remaining n –1 wavelength range segments, on either side of the central peak of the first K-K consistent oscillator;". This limitation is not clear. Therefore, claim 26 is considered indefinite.

6. Claims 32-37, 39 and 41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 32 recites in page 16, lines 24-27, "for each of the remaining n-1 wavelength range segments, distributed about both sides of the central peak of the first K-K consistent oscillator;". It is not clear from the claim what is distributed about both sides of the central peak of the first K-K consistent oscillator. Therefore, claims 32-37, 39 and 41 is considered indefinite.

Response to Arguments

Applicant's arguments filed 8/19/05, with respect to claims 1-3 have been fully 7. considered and are persuasive. The rejection of claims 1-3 has been withdrawn.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in 8. Accordingly, THIS ACTION IS MADE FINAL. this Office action. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohamed Charioui whose telephone number is (571) 272-2213. The examiner can normally be reached Monday through Friday, from 9 am to 6 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Marc S Hoff can be reached on (571) 272-2216. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Mohamed Charioui

10/27/05

MARC S. HOFF SUPERVISORY PATENT SYMMER -